

Locality weighted distribution

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Follow this guide to configure the distribution of traffic across localities.

Before proceeding, be sure to complete the steps under before you begin.

In this task, you will use the Sleep pod in region1 zone1 as the source of requests to the Helloworld service. You will configure Istio with the following distribution across

localities:

Region	Zone	% of traffic
region1	zone1	70
region1	zone2	20
region2	zone3	0
region3	zone4	10

Configure Weighted Distribution

Apply a DestinationRule that configures the following:

service. This is required in order for distribution to function properly. In particular, it configures the sidecar proxies to know when endpoints for a service are unhealthy.

Outlier detection for the Helloworld

 Weighted Distribution for the Helloworld service as described in the table above.

```
e -f - <<E0F
apiVersion: networking.istio.io/v1beta1
kind: DestinationRule
metadata:
  name: helloworld
spec:
  host: helloworld.sample.svc.cluster.local
  trafficPolicy:
    loadBalancer:
      localityLbSetting:
        enabled: true
        distribute:
        - from: region1/zone1/*
          to:
            "region1/zone1/*": 70
            "region1/zone2/*": 20
            "region3/zone4/*": 10
    outlierDetection:
      consecutive5xxErrors: 100
      interval: 1s
      baseEjectionTime: 1m
FOF
```

\$ kubectl --context="\${CTX PRIMARY}" apply -n sampl

Verify the distribution

Call the HelloWorld service from the Sleep pod:

```
$ kubectl exec --context="${CTX_R1_Z1}" -n sample -
c sleep \
    "$(kubectl get pod --context="${CTX_R1_Z1}" -n sa
mple -1 \
    app=sleep -o jsonpath='{.items[0].metadata.name}'
)" \
    -- curl -sSL helloworld.sample:5000/hello
```

that the number of replies for each pod match the expected percentage in the table at the top of this guide.

Repeat this a number of times and verify

Congratulations! You successfully configured locality distribution!

Next steps

